

Serial No.: 09/721,249

IN THE SPECIFICATION:

Please insert the following new paragraph before the first paragraph on page of the application:

CROSS REFERENCE TO RELATED APPLICATIONS

This Application claims priority from U.S. Provisional Application Serial No. 60/167,498 filed November 24, 1999, which is incorporated herein by reference.

Please amend the first paragraph on page 3, line 6 to read as follows:

Solenoid The solenoid RF coil looks very similar to that of the conventional solenoid. A two turn solenoid RF coil with two identical value C1 tuning capacitors in series is shown in Figure 10. The inductance of the coil turns along with C1 resonate the coil near the NMR frequency. By adjusting the tuning capacitors C1 and matching the coil across C1 (A) with impedance matching networks (not shown), one can derive the homogeneous mode which can be used to image at the NMR frequency. The B field orientation of this homogeneous mode is along the coil axis, in the Z direction. The points where the dotted line intersects the coil are at virtual ground, they have no net potential (shown with " x" marks).